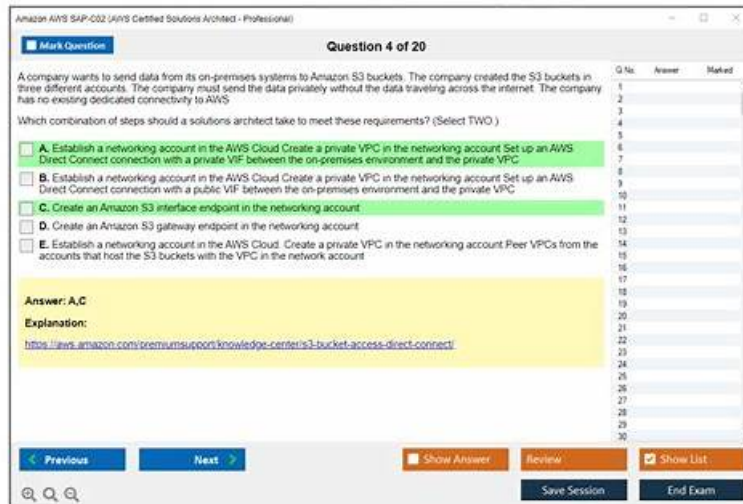


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The SAP-C02 exam covers a broad range of topics related to AWS architecture, including designing and deploying complex applications, designing and deploying enterprise-scale operations, and designing and deploying hybrid IT architectures. SAP-C02 Exam also covers topics related to security, cost optimization, and performance optimization, among others. SAP-C02 exam consists of multiple-choice and multiple-response questions, and candidates have 180 minutes to complete it.

## Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q88-Q93):

### NEW QUESTION # 88

A company runs applications on Amazon EC2 instances. The company plans to begin using an Auto Scaling group for the instances. As part of this transition, a solutions architect must ensure that Amazon CloudWatch Logs automatically collects logs from all new instances. The new Auto Scaling group will use a launch template that includes the Amazon Linux 2 AMI and no key pair

Which solution meets these requirements?

- A. Create an Amazon CloudWatch agent configuration for the workload Create an AWS Lambda function to Install and configure CloudWatch agent by using AWS Systems Manager Session Manager. Include the agent configuration inside the Lambda package Create an AWS Config custom rule to identify changes to the EC2 instances and invoke the Lambda function
- **B. Create an Amazon CloudWatch agent configuration for the workload In AWS Systems Manager Parameter Store Create a Systems Manager document that Installs and configures the CloudWatch agent by using the configuration Create an Amazon EventBridge (Amazon CloudWatch Events) rule on the default event bus with a Systems Manager Run Command target that runs the document whenever an instance enters the running state.**
- C. Create an Amazon CloudWatch agent configuration for the workload. Save the CloudWatch agent configuration as part of an AWS Lambda deployment package. Use AWS CloudTrail to capture EC2 tagging events and initiate agent installation. Use AWS CodeBuild to configure the CloudWatch agent on the instances that run the workload.
- D. Create an Amazon CloudWatch agent configuration for the workload Store the CloudWatch agent configuration in an Amazon S3 bucket Write an EC2 user data script to fetch the configuration file from Amazon S3. Configure the CloudWatch agent on the instance during Initial boot.

**Answer: B**

### NEW QUESTION # 89

A company has an application that runs on a fleet of Amazon EC2 instances behind an Application Load Balancer (ALB). The application is in an AWS account that has AWS CloudTrail enabled. The company restricts access to the application by adding the IP addresses of end users to a security group that is associated with the ALB.

The company is developing an AWS Lambda function to determine if the allowed IP addresses have accessed the application recently. If an allowed IP address has not accessed the application in the last 90 days, the Lambda function will remove the IP address from the security group.

The company needs to implement the functionality for the Lambda function to check the IP addresses.

Which combination of steps will provide this functionality MOST cost-effectively? (Select TWO.)

- **A. Program the Lambda function to check when each allowed IP address from the security group last appeared in the ALB access logs**
- B. Program the Lambda function to check when each allowed IP address from the security group last appeared in the VPC flow logs.
- **C. Enable access logging on the ALB. Create an Amazon Athena table to query the ALB access logs.**
- D. For the VPC that contains the ALB, configure VPC flow logs to be sent to a log group in Amazon CloudWatch Logs.
- E. Program the Lambda function to check when each allowed IP address from the security group last appeared in the CloudTrail logs.

**Answer: A,C**

### NEW QUESTION # 90

A company runs a software-as-a-service (SaaS) application on AWS. The application consists of AWS Lambda functions and an Amazon RDS for MySQL Multi-AZ database. During market events, the application has a much higher workload than normal. Users notice slow response times during the peak periods because of many database connections. The company needs to improve the scalable performance and availability of the database. Which solution meets these requirements?

- A. Migrate the database to Amazon Aurora and add a read replica. Use Amazon Route 53 weighted records.
- B. Create an Amazon CloudWatch alarm action that triggers a Lambda function to add an Amazon RDS for MySQL read replica when resource utilization hits a threshold.
- **C. Migrate the database to Amazon Aurora and add an Aurora Replica. Configure Amazon RDS Proxy to manage database connection pools.**
- D. Migrate the database to Amazon Aurora, and add a read replica. Add a database connection pool outside of the Lambda handler function.

**Answer: C**

Explanation:

\* Migrate to Amazon Aurora:

\* Amazon Aurora is a MySQL-compatible, high-performance database designed to provide higher throughput than standard

MySQL. Migrating the database to Aurora will enhance the performance and scalability of the database, especially under heavy workloads.

\* Add Aurora Replica:

\* Aurora Replicas provide read scalability and improve availability. Adding an Aurora Replica allows read operations to be distributed, thereby reducing the load on the primary instance and improving response times during peak periods.

\* Configure Amazon RDS Proxy:

\* Amazon RDS Proxy acts as an intermediary between the application and the Aurora database, managing connection pools efficiently. RDS Proxy reduces the overhead of opening and closing database connections, thus maintaining fewer active connections to the database and handling surges in database connections from the Lambda functions more effectively.

\* This configuration reduces the database's resource usage and improves its ability to handle high volumes of concurrent connections.

References

\* AWS Database Blog on RDS Proxy (Amazon Web Services, Inc.).

\* AWS Compute Blog on Using RDS Proxy with Lambda (Amazon Web Services, Inc.).

### NEW QUESTION # 91

A health insurance company stores personally identifiable information (PII) in an Amazon S3 bucket. The company uses server-side encryption with S3 managed encryption keys (SSE-S3) to encrypt the objects.

According to a new requirement, all current and future objects in the S3 bucket must be encrypted by keys that the company's security team manages. The S3 bucket does not have versioning enabled.

Which solution will meet these requirements?

- A. In the S3 bucket properties, change the default encryption to server-side encryption with AWS KMS managed encryption keys (SSE-KMS). Set an S3 bucket policy to deny unencrypted PutObject requests. Use the AWS CLI to re-upload all objects in the S3 bucket.
- B. In the S3 bucket properties, change the default encryption to server-side encryption with AWS KMS managed encryption keys (SSE-KMS). Set an S3 bucket policy to automatically encrypt objects on GetObject and PutObject requests.
- C. In the S3 bucket properties, change the default encryption to AES-256 with a customer managed key. Attach a policy to deny unencrypted PutObject requests to any entities that access the S3 bucket. Use the AWS CLI to re-upload all objects in the S3 bucket.
- D. In the S3 bucket properties, change the default encryption to SSE-S3 with a customer managed key. Use the AWS CLI to re-upload all objects in the S3 bucket. Set an S3 bucket policy to deny unencrypted PutObject requests.

**Answer: C**

Explanation:

Explanation

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/ServerSideEncryptionCustomerKeys.html> Clearly says we need following header for SSE-C x-amz-server-side-encryption-customer-algorithm Use this header to specify the encryption algorithm. The header value must be AES256.

### NEW QUESTION # 92

A company has an application that runs on Amazon EC2 instances. A solutions architect is designing VPC infrastructure in an AWS Region where the application needs to access an Amazon Aurora DB cluster. The EC2 instances are all associated with the same security group. The DB cluster is associated with its own security group.

The solutions architect needs to add rules to the security groups to provide the application with least privilege access to the DB cluster.

Which combination of steps will meet these requirements? (Select TWO.)

- A. Add an outbound rule to the EC2 instances' security group. Specify the DB cluster's security group as the destination over the default Aurora port.
- B. Add an inbound rule to the EC2 instances' security group. Specify the DB cluster's security group as the source over the default Aurora port.
- C. Add an inbound rule to the DB cluster's security group. Specify the EC2 instances' security group as the source over the default Aurora port.
- D. Add an outbound rule to the DB cluster's security group. Specify the EC2 instances' security group as the destination over the ephemeral ports.
- E. Add an outbound rule to the DB cluster's security group. Specify the EC2 instances' security group as the destination over

